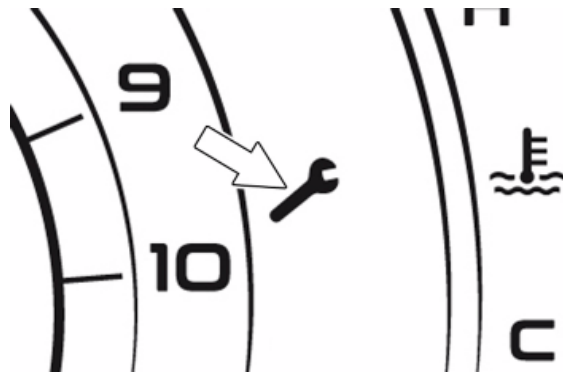


**MAINTENANCE ICON OPERATION**

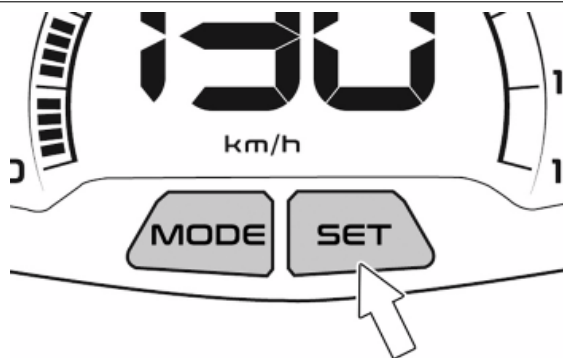
This function indicates the scheduled maintenance interventions. For each time the key is turned to "ON", once the instrument panel has performed the initial check, if the value of the remaining kilometres until the next intervention is less than 300 Km (186.41 mi), the indicated icon will flash for 5 seconds. Once the service intervention mileage is reached, each time the key is turned to "ON", the icon remains lit steadily until it is reset.



**MAINTENANCE ICON RESETTING**

The maintenance icon is reset by pressing the **SET** key on the instrument cluster for more than 5 seconds, while turning the key to the "ON".

During the first 5 seconds, the digital display will not generate any signal; during the next 5 seconds, the maintenance icon will flash with a frequency of 1 Hz.



If the **SET** key is released before the 5 seconds, the scheduled service is not reset

**CAUTION**



**THE MAINTENANCE ICON RESET PROCEDURE MAY ONLY BE PERFORMED WHEN THE VEHICLE IS AT A STANDSTILL (SPEED = 0 Km/h).**

**SHORT PRESS/PROLONGED PRESS**

Specification	Desc./Quantity
SHORT PRESS (PRESS AND RELEASE)	LESS THAN 0.5 SECONDS.
PROLONGED PRESS (PRESS AND HOLD)	BETWEEN 1 AND 5 SECONDS.
INPUT, CONFIRM AND TIMEOUT TIMES	LONGER THAN 5 SECONDS.

**Maintenance chart**

**SCHEDULED MAINTENANCE TABLE**

*I: CHECK AND CLEAN, ADJUST, LUBRICATE OR REPLACE IF NECESSARY.*

*C: CLEAN, R: REPLACE, A: ADJUST, L: LUBRICATE*

*\* Clean more frequently in cases of intensive use on gravel roads.*

Km x 1000 (mi x 1000)	1 (0.6)	10 (6.2)	20 (12.4)	30 (18.6)	40 (24.8)	50 (31.0)	EVERY 12 MONTHS	EVERY 24 MONTHS
Safety blocks	I	I	I	I	I	I		
Spark plug			R		R			
Centre/side stand		L	L	L	L	L	L	L
Drive belt			R		R			

Km x 1000 (mi x 1000)	1 (0.6)	10 (6.2)	20 (12.4)	30 (18.6)	40 (24.8)	50 (31.0)	EVERY 12 MONTHS	EVERY 24 MONTHS
Throttle control	I	I	I	I	I	I	I	I
Complete roller housing			I		I			
Diagnosis by tool	I	I	I	I	I	I	I	I
Air filter *		R	R	R	R	R		
CVT Filter *		C	C	C	C	C		
Engine oil filter	R	R	R	R	R	R	R	R
Valve clearance			I		I			
Electrical system and battery	I	I	I	I	I	I		
Brake system	I	I	I	I	I	I	I	I
Coolant	I	I	I	I	I	I	I	R
Brake fluid	I	I	I	I	I	I	I	R
Engine oil	R	R	R	R	R	R	R	R
Hub oil	R		R		R		I	I
Headlight direction adjustment		I	I	I	I	I		
Brake pads		I	I	I	I	I	I	I
Sliding shoes / CVT rollers			R		R			
Tire pressure and wear	I	I	I	I	I	I	I	I
Test drive of vehicle on road	I	I	I	I	I	I	I	I
Suspension	I	I	I	I	I	I	I	I
Steering	A	I	I	I	I	I	I	I
Manpower (minutes)	70	70	130	70	130	70	40	100

**N.B.**

**AT EACH SCHEDULED SERVICE, USE THE DIAGNOSTIC TOOL TO CHECK FOR ERRORS AND CHECK THAT ALL PARAMETERS ARE CORRECT. ENSURE THAT THE VEHICLE CALIBRATION IS UP TO DATE AFTER UPDATING THE DIAGNOSTIC TOOL.**

**CAUTION**

**AFTER THE PROVIDED MAINTENANCE PROGRAM IS INDICATED TO PROCEED WITH THE MAINTENANCE OF THE VEHICLE STARTING FROM THE SERVICE OF 5,000 Km (3,106 mi) OR 5 MONTHS.**

**Recommended products**

Piaggio Group recommends the use of products from its Castrol official partner for the scheduled maintenance of its vehicles.



Only use lubricants and fluids which meet or exceed the performance characteristics specified.

This also applies when topping up only.

**TABLE OF RECOMMENDED PRODUCTS**

Product	Description	Specifications
Engine oil 5W -40	Synthetic-based lubricant for four-stroke engines.	SAE 5W-40; JASO MA, MA2; API SL; ACEA A3
Transmission oil 80W-90	Lubricant for gearboxes and transmissions.	SAE 80W-90 API GL-4
Anti-freeze liquid, ready to use, colour red	Glycol ethylene based antifreeze liquid with organic additive technology corrosion inhibitor. Colour red, ready to use.	ASTM D 3306 - ASTM D 4656 - ASTM D 4985 - CUNA NC 956-16
DOT 4 brake fluid	Synthetic brake fluid.	SAE J 1703; FMVSS 116; ISO 4925; CUNA NC 956 DOT4
Front fork oil	Specific front fork oil SHOWA	SHOWA SS-8G.
Lubricant grease	Lithium and medium fibre yellow brown coloured grease suitable for various uses.	ISO L-X-BCHA 3 - DIN 51 825 K3K -20
Water repellent spray grease	Water repellent pouring calcium spray grease.	White, soap base spray grease with NLGI 2 Calcium complex; ISO-L-XBCIB2

## Spark plug

Proceed as follows:

Remove the spark plug access panel located on the bike's right side, unscrewing the indicated screw.

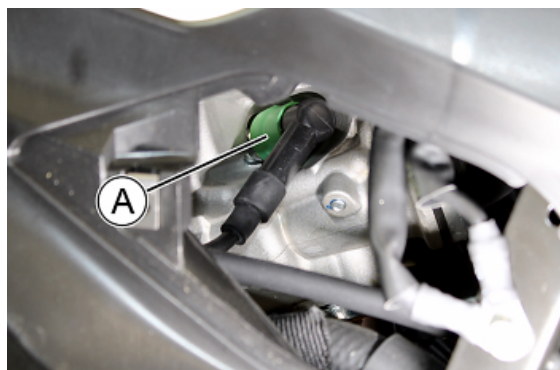


Disconnect the hood "A" of the spark plug's high voltage cable.

Undo the spark plug using the specific spark plug spanner.

When refitting, place the spark plug into the hole at the required angle and finger tighten it as far as it will go. Use the wrench only to tighten it.

Push cap «A» fully over the spark plug.



### WARNING



**SPARK PLUG MUST BE REMOVED WHEN THE ENGINE IS COLD. REPLACE THE SPARK PLUG AS INDICATED IN THE SCHEDULED MAINTENANCE TABLE. THE USE OF SPARK PLUGS OTHER THAN THOSE PRESCRIBED MAY SERIOUSLY DAMAGE THE ENGINE.**

**N.B.**

**USING SPARK PLUGS OTHER THAN THE INDICATED TYPE OR SHIELD-LESS SPARK PLUG CAPS CAN CAUSE ELECTRICAL SYSTEM FAILURES.**

## Hub oil

Check that there is oil in the rear hub. Do the following in order to check the hub oil level:

1. Place the vehicle on its stand on flat ground.
2. Unscrew the screws «A» and if oil comes out or touches the screw holes, the level is correct. If this does not happen, top up the oil.
3. Screw the screw back in, checking proper tightening.



### CAUTION



RIDING THE VEHICLE WITH INSUFFICIENT HUB LUBRICATION OR WITH CONTAMINATED OR IMPROPER LUBRICANTS ACCELERATES THE WEAR AND TEAR OF THE MOVING PARTS AND CAN CAUSE SERIOUS DAMAGE.

CAUTION



USED OIL IS HARMFUL TO THE ENVIRONMENT. COLLECTION AND DISPOSAL SHOULD BE CARRIED OUT IN COMPLIANCE WITH REGULATIONS IN FORCE.

CAUTION



WHEN CHANGING THE HUB OIL, MAKE SURE IT DOES NOT TOUCH THE REAR WHEEL AND TIRE.

### Recommended products

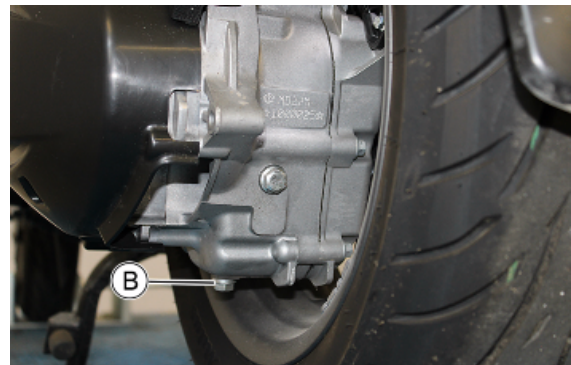
**Transmission oil 80W-90 Lubricant for gearboxes and transmissions.**

SAE 80W-90 API GL-4

### Replacement

Place the vehicle on its centre stand on flat surface

- Unscrew and remove the hub oil filler screw " A " .
- Unscrew the oil drain screw "B " and allow the oil to drain completely from the hub in a suitable container.
- Screw the drain screw to the prescribed torque.
- Refill the hub using the recommended product.



### Recommended products

**Transmission oil 80W-90 Lubricant for gearboxes and transmissions.**

SAE 80W-90 API GL-4

## Air filter

To remove the air filter, proceed as follows:

- Unscrew and remove the air filter cover fixing screws.



- Remove the filter box cover.



- Remove the filtering element.



- Check the condition of the rubber gaskets on the profile of the filter box and the cover.
- Replace the gaskets if it shows cuts and/or cracked.



- Insert a new filter element in its seat.



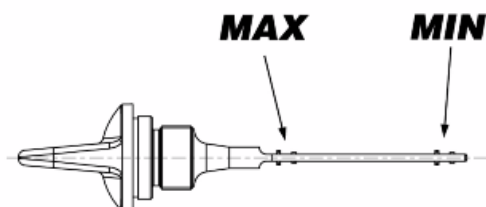
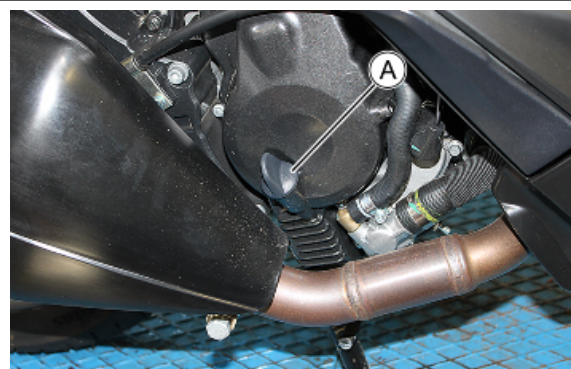
- Position the cover.
- Tighten the fastening screws of the air filter box cover.



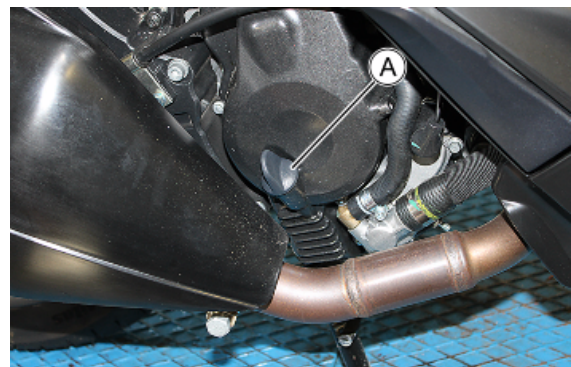
## Engine oil

Every time the vehicle is used, visually inspect the level of the engine oil when the engine is cold (after **completely unscrewing** the oil cap/dipstick). The oil level should be somewhere between the MAX and MIN index marks on the level rod; «A»; while the oil is being checked, the vehicle must be resting on its centre stand on an even, horizontal surface.

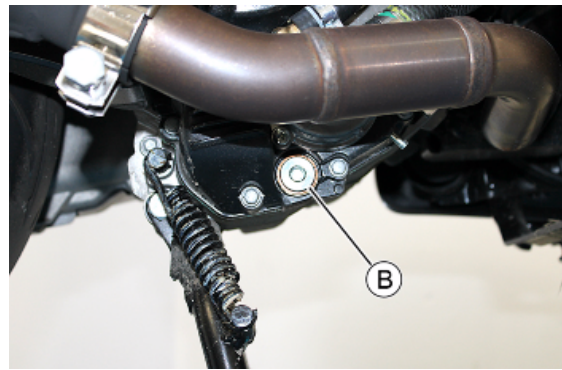
If the check is carried out after the vehicle has been used, and therefore with a hot engine, the level will be lower; in order to carry out a correct check, wait at least 10 minutes after the engine has been stopped so as to get the correct level.



- Remove the oil filling cap/dipstick «A».



- 
- Unscrew the oil drainage cap «B» and drain out all the oil.



- Screw in the drainage cap again and fill with the prescribed oil.

### Recommended products

**Engine oil 5W -40 Synthetic-based lubricant for four-stroke engines.**

SAE 5W-40; JASO MA, MA2; API SL; ACEA A3

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## Engine oil filter

The oil filter must be replaced every time the oil is changed.

Use new oil of the recommended type for topping up and changing purposes and comply with the regulations regarding timing and mileage, as described in the periodic maintenance table.

- Check that O-ring and the spring are in good state.
- Lubricate the O-ring before fitting.
- Tighten the screws of the plug to the prescribed torque



### Locking torques (N\*m)

**Engine oil filter plug - Crankcase 11.0 ± 1.0 Nm**